

Cole AIE  
API - 30-645-24117



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08 September 2015

Kevin Fredrickson  
Conoco Phillips-Farmington  
3401 30th Street  
Farmington, NM 87401  
RE: Braden Head

OIL CONS. DIV DIST. 3

SEP 11 2015

Enclosed are the results of analyses for samples received by the laboratory on 08/20/15 14:34.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



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Conoco Phillips-Farmington  
3401 30th Street  
Farmington NM, 87401

Project: Braden Head  
Project Name / Number: [none]  
Project Manager: Kevin Fredrickson

Reported:  
09/08/15 15:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cole A #1E	1508298-01	Water	08/19/15 08:00	08/20/15 14:34

OIL CONS. DIV DIST. 3

SEP 11 2015

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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Conoco Phillips-Farmington 3401 30th Street Farmington NM, 87401	Project: Braden Head Project Name / Number: [none] Project Manager: Kevin Fredrickson	Reported: 09/08/15 15:07
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**Cole A #1E**  
**1508298-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
Chloride*	24.0	20.0	10.0	mg/L	2	09/03/15	4500-Cl- C		LLG
pH*	12.3			pH Units	1	08/21/15	EPA150.1	H4	MAJ
Sulfate	2900	500	84.0	mg/L	50	09/05/15	4500-SO42- E		ABP
TDS*	5010	10.0		mg/L	1	08/25/15	EPA160.1		ABP

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Conoco Phillips-Farmington  
3401 30th Street  
Farmington NM, 87401

Project: Braden Head  
Project Name / Number: [none]  
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09/08/15 15:07

### Notes and Definitions

- H4 pH analysis performed more than 48 hours after sampling.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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Client: COP Phone# 215-3184 Contact: *Kris Fuddekin*  
 Address: *Farmingford NM* E-Mail Address: *Kris.G.Fuddekin@cop.com*



**CHAIN OF CUSTODY RECORD**  
 GAL Work Order # *1508-298*  
 PO#  
 Project Name:

*30.80 NO 1/2*

Sample Location: (1)BumperSpring, (2)CompressorDischarge, (3)Flowline, (4)Meter, (5)Oil Tank  
 (6)PigLauncher, (7)PigReceiver, (8)Pipeline, (9)Pit Tank, (10)PostFilter, (11)PreFilter  
 (12)SeparatorInlet, (13)SeparatorOutlet, (14)SeparatorDump, (15)SWDInlet  
 (16)SWDOutlet, (17)TransferPump, (18)ValveCan, (19)WaterTank, (20)Wellhead  
 (21)Other

Sample Type: (1)Casing, (2)CO2GasTube, (3)Coupon, (4)Water, (5)H2SGasTube, (6)Metals  
 (7)O2GasTube, (8)PipeSection, (9)Residual, (10)Sludge, (11)Solid, (12)Tubing, (13)Other

Well Name (Sample Name)	Collection						Preservative				Analyses Required		
	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y/N	Unpreserved	H2SO4	Other:	Iron and Manganese	Phosphate	Full Water API
1. <i>COLE A #1 E</i>	<i>8/19/15</i>	<i>8:00 AM</i>	<i>MSO</i>	<i>20</i>	<i>4</i>	<i>1</i>	<i>N</i>	<i>✓</i>					<i>Wellhead</i>
2.													
3.													
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Relinquished by: *[Signature]* Date: *8/20/15* Time: *2:34* Received By: *Michael Clark* Date: *8/20/15* Time: *1434*  
*Michael Clark* *8/20/15* *1655* *Kangaroo Express* *8/20/15* *1655*  
*Kangaroo* *8-21-15* *Michael Valentine*



API / UWI 3004524117	Surface Legal Location NMPM-28N-10W-35-1	Field Name CH/DK DUAL	License No.	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,889.00	Original KB/RT Elevation (ft) 5,902.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft) 13.00	KB-Tubing Hanger Distance (ft) 13.00	

Original Hole, 9/9/2015 11:20:33 AM

